



May 15, 2017

Joint Ways and Means Capital Construction Subcommittee  
Co-Chair Senator Fred Girod  
Co-Chair Representative Paul Holvey  
900 Court St. NE  
Salem, OR 97301

Dear Co-Chair Girod, Co-Chair Holvey and Members of the Subcommittee:

I am writing on behalf of the Deschutes Basin Board of Control (DBBC) to request the State of Oregon contribute a minimum of \$25 million through SB 5530 in the 2017-19 biennium to cost-share an unprecedented, collaborative water conservation program in Central Oregon's Deschutes Basin.

Led by the DBBC, which represents eight individual irrigation districts, this comprehensive conservation and restoration program will advance a series of innovative water conservation projects that will return water supplies, with senior water rights, into the Deschutes River and its tributaries to improve habitat conditions for Oregon spotted frog, steelhead, salmon and other fish and wildlife species. Several of these species, including the frog and steelhead are protected under the Endangered Species Act.

The state funds will leverage additional local and federal funds. Last week, Congress approved the FY 17 Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations bill (H.R. 244, Consolidated Appropriations Act 2017, Public Law 115-31). This law, co-authored by Agriculture Appropriations Subcommittee Ranking Member Jeff Merkley, authorizes \$150 million in competitive, cost-shared grants for water conservation, flood protection, fish and wildlife restoration and other water-related projects. For several years, Central Oregon's irrigation districts have been working with the U.S. Department of Agriculture on the development of their projects in anticipation of these funds becoming available.

The DBBC is working collaboratively with state and federal agencies, including the U.S. Fish and Wildlife Service, U.S. Bureau of Reclamation, Oregon Department of Water Resources, and others, to advance a preliminary set of projects for completion in the next 3-5 years, based on the availability of funds. The attached list briefly describes the projects, which are subject to change in light of funding and other factors.

As the President of the DBBC, I assure you of our resolve to complete this preliminary set of projects, and as well as other projects, to conserve water, to improve our management of water supplies, and to improve habitat conditions in the Deschutes River and its tributaries for the Oregon spotted frog and other fish and wildlife species.

I encourage you to personally call me if you would like a more complete briefing on the individual projects we are committed to implement in the near future. Funding from the State of Oregon will ensure we are all successful in fulfilling our commitment for the benefit of Oregon's economy and environment.

Sincerely,  
Mike Britton  
President

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PO Box 919 - Madras, OR 97741

*Deschutes Basin Board of Control Member Districts*  
*Arnold Irrigation District • Central Oregon Irrigation District • Lone Pine Irrigation District • North Unit Irrigation District*  
*Ochoco Irrigation District • Swalley Irrigation District • Three Sisters Irrigation District • Tumalo Irrigation District*  
*DBBC President - Mike Britton, 541-475-3625; mbritton@northunitid.com*



Connecting Central Oregon's Water, Land & Environment

## Priority Projects List\*

### Central Oregon Irrigation District (Redmond, OR)

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#### Smith Rock Piping Project

Description: Install "3.65 miles of 108"" and 102"" steel pipe for the Pilot Butte main canal that is currently open trench. 5.15 miles of HDPE pipe for the J and L lateral systems that is currently open trench. HDPE pipe will range in diameter from 16"" to 32"", and vary in pressure rating. Project will also include two pressure reducing locations, and 53 turnouts for patron delivery

Cost: \$15,034,397.00

Engineering	Complete	Yes		
NEPA/CE	Programmatic Agreement Complete			Jun-17
Water Conservation	Yes	18.51	CFS	
Energy Conservation	Yes	3,115,729	kWh	
Energy Generation (Hydro)	Yes	49,921	kWh	

#### King Way Piping Project

Description: Install "2.37 miles of 114"" and 108"" steel pipe for the Pilot Butte main canal that is currently open trench. 15.93 miles of HDPE pipe for the F, G and H lateral systems that are currently open trench. HDPE pipe will range in diameter from 8"" to 48"", and vary in pressure rating. Project will also include one temporary pressure reducing location, and 102 turnouts for patron delivery

Cost: \$25,068,026.00

Engineering	Complete			
NEPA/CE	Programmatic Agreement Complete in 90 days			
Water Conservation	Yes	13.34	CFS	
Energy Conservation	Yes	5,543,415	kWh	
Energy Generation (Hydro)	No		kWh	

### Priority Lone Pine Irrigation District Projects

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#### Main Canal Phase I

Description: Furnish and install 4,850 LF of 48" DR 21 HDPE pipe to enclose open canal

Cost: \$2,648,000.00

Engineering	LiDAR and Preliminary Engineering complete	Yes		
NEPA/CE	NEPA/CE Complete	In Process		
Water Conservation	Yes	1.0	CFS	
Energy Conservation	No		kWh	
Energy Generation (Hydro)	No		kWh	

Other benefits: Eliminates erosion (ESA/water quality)

\* Priority project list and status as of May 15, 2017. Additional priority project descriptions being developed.

## Priority North Unit Irrigation District Projects

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### **NUID Lateral 58-11 Piping Project**

Description: Replace inefficient 70 year old infrastructure by enclosing the 58-11 Lateral 5 miles of 48" to 12" HDPE pipe to eliminate seepage and evaporation. Portions of the conserved water to the Deschutes and Crooked Rivers to support ESA listed Oregon Spotted Frog and Steelhead and contribute to sustainable agriculture. In construction now.

Cost: \$4,487,843.00

Engineering	LiDAR and 100% Engineering	Yes	
NEPA/CE	Complete	Yes	
Funding	Partially funded - seeking to complete	\$2,300,000	
Water Conservation	Yes	4.5	CFS
Energy Conservation	Yes	3,661,547	kWh
Energy Generation (Hydro)	Yes	494,148	kWh

### **Feather Drive (Lateral 37, 41, 43) Piping Project**

Description: Replace inefficient 70-year-old infrastructure by enclosing Laterals 37, 41 and 43 with approx. 15 miles of 63" to 10" HDPE pipe to eliminate seepage and evaporation. Portions of the conserved water to the Deschutes and Crooked Rivers to support ESA listed Oregon Spotted Frog, Steelhead and Salmon and contribute to sustainable agriculture.

Cost: \$17,487,276.00

Engineering	LiDAR and Feasibility Evaluation	Yes	
NEPA/CE	No		
Water Conservation	Yes	6.53	CFS
Energy Conservation	Yes	3,732,150	kWh
Energy Generation (Hydro)	Potential exists	1,333,392	kWh

### **South Juniper Butte Piping, Storage and Reuse Project**

Description: Replace inefficient 70 year old infrastructure by enclosing Laterals 31, 32 and 34 with approx. 7.6 miles of 42" to 6" HDPE pipe to eliminate seepage and evaporation. Portions of the conserved water to the Deschutes and Crooked Rivers to support ESA listed Oregon Spotted Frog, Steelhead and Salmon and contribute to sustainable agriculture. Small retention/reuse storage opportunities to minimize tail water releases to Crooked River.

Cost: \$4,569,822.00

Engineering	LiDAR and Feasibility Evaluation	Yes	
NEPA/CE	No		
Water Conservation	Yes	2.03	CFS
Energy Conservation	Yes	307,291	kWh
Energy Generation (Hydro)	Potential	No	kWh

## Priority Ochoco Irrigation District Projects

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### OID Multi-Lateral Piping Project

Description: Replace inefficient 100 year old infrastructure by enclosing 9 district laterals with 7.8 miles of 24" to 6" profile wall HDPE pipe to eliminate seepage and evaporation. Portions of the conserved water to the Crooked River to support ESA listed Steelhead and contribute to sustainable agriculture.

Cost: \$2,099,119.00

Engineering LiDAR and System Optimization Review complete Yes

NEPA/CE NEPA/CE Complete No

Water Conservation Yes 3.0 CFS

Energy Conservation Yes 462,000kWh

Energy Generation (Hydro) No kWh

Other benefits: Push-up dam removal (ESA-steelhead), removes pumps out of McKay Creek (ESA-steelhead), eliminates end spills (ESA/water quality), eliminates erosion (ESA/water quality)

## Priority Swalley Irrigation District Projects

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### Rogers and Riley Lateral Piping Project

Description: Open canal to pipeline conversion project in a moderate to highly urbanized area. Senior Deschutes Surface Water Rights.

Cost: \$5,142,897.00

Engineering LiDAR & Modelling 100%. Engineering 50%

NEPA/CE In Progress

Water Conservation Yes 4.2 CFS

Energy Conservation Yes 744,092kWh

Energy Generation (Hydro) No kWh

### Elder and Butte Lateral Piping Project

Description: Replace inefficient 125-year-old infrastructure by converting open canals to pressurized pipelines through rural ranch and farm environment. Senior Deschutes Surface Water Rights.

Cost: \$1,880,242.00

Engineering LiDAR & Modelling 100%. Engineering 50%

NEPA/CE In Progress

Water Conservation Yes 2.3 CFS

Energy Conservation Yes 349,560kWh

Energy Generation (Hydro) No kWh

### Main Canal Piping and Pressure Boost Project

Description: This is a canal to pressurized pipeline conversion project in rural ranch and farm country. Senior Deschutes Surface Water Rights.

Cost: \$8,046,965.00

Engineering LiDAR & Modelling 100%. Engineering 50%

NEPA/CE In Progress

Water Conservation Yes 9.6 CFS

Energy Conservation Yes 1,212,362 KW/HR

Energy Generation (Hydro) No kWh

Other benefits: Public safety, water conservation, water quality enhancements, energy conservation, on-farm efficiencies, and fire-suppression. Senior Deschutes Surface Water Rights could be placed permanently in-stream or sold to junior water right holders faced with shortages due to ESA constraints.

## Priority Tumalo Irrigation District Projects

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### **Tumalo Feed Canal (project groups 1,2,3)**

Description: Replace 100-year-old infrastructure by enclosing the Tumalo Irrigation District Main Canal with 30,754 feet of 84" and 54" profile wall HDPE pipe to eliminate seepage and evaporation. Restore the Conserved water to Tumalo Creek and Crescent Creek to support ESA listed OSF, fish and sustainable agriculture

Cost: \$14,584,553.00

Engineering Complete

NEPA Complete

Funding Partially funded, Seeking Federal \$2,300,000

Water Conservation Yes 11.3 CFS

Energy Conservation Yes 62,521 kWh

Energy Generation (Hydro) No kWh

### **Tumalo Feed Laterals (project group 4 thru 11)**

Description: Replace 100 year old infrastructure by enclosing the Columbia Southern Lateral with 45,469 feet of 48 inch and less solid wall pipe and 41 additional laterals 290,000 feet 24" and less solid wall HDPE pipe to eliminate seepage and evaporation. Restore the Conserved water to Tumalo Creek and Crescent Creek to support ESA listed OSF, fish and sustainable agriculture

Cost: \$27,712,898.00

Engineering 70% complete

NEPA in-progress est. completion 2017

Water Conservation Yes 38.8 CFS

Energy Conservation Yes 3,940,430 kWh

Energy Generation (Hydro) Yes 1,538,492 kWh